



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 4, 2020

Lisa Amadio
Principal Regulatory Consultant
Champion Packaging & Distribution, Inc.
11840 Internationale Parkway
Woodridge, IL 60517

Subject: Notification per PRN 98-10 – Referral statement placement, added logos and alternate brand name
Product Name: Sodium Hypochlorite 6%
EPA Registration Number: 55852-5
Application Date: October 28, 2019
Decision Number: 557894

Dear Ms. Amadio:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

The alternate brand name “Arocep Germicidal Ultra Bleach” has been added to the product record.

If you have any questions, you may contact Wanda Henson at (703) 308-6345 or via email at henson.wanda@epa.gov

Sincerely,

A handwritten signature in blue ink that reads "Wanda J. Henson, for".

Demson Fuller, Product Manager 32
Regulatory Management Branch I
Antimicrobials Division (7510P) Office of
Pesticide Programs

SODIUM HYPOCHLORITE 6%

[Alternate Brand Names:
Sun Brite Bleach
SunBrite Ultra Bleach
TUNDRA Ultra Bleach
Arocep Germicidal Ultra Bleach]

Active Ingredient:
Sodium Hypochlorite.....6.0%
Other Ingredients..... 94.0%
TOTAL.....100.0%

**DISINFECTS * SANITIZES * DEODORIZES
VIRUCIDE * TUBERCULOCIDE**

COMMERCIAL, INSTITUTIONAL USE

KEEP OUT OF REACH OF CHILDREN
DANGER

FIRST AID:

IF IN EYES, Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING, Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED, Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

FOR MEDICAL EMERGENCY Call INFOTRAC 1-800-535-5053

FOR CHEMICAL EMERGENCY DURING TRANSPORTATION ONLY Call INFOTRAC 1-800-535-5053 24 hours per day, 7 days per week

[Please see label on bottles inside this package for additional information.]

[Please see back/side/interior panel/container for [additional information/directions for use/precautionary statements].]

[\[See technical data sheet for other use/directions.\]](#)

{Additional Information for front panel:}

NEW HIGHER CONCENTRATION FORMULA

KILLS HIV AND TB ON HARD NON-POROUS ENVIRONMENTAL SURFACES

DISINFECTS AND DEODORIZES

WHITENS

BRIGHTENS LAUNDRY

KILLS GERMS

FORMULATED FOR FOODSERVICE APPLICATIONS

REMOVES STAINS

FARM- DAIRY USE

RESTAURANT USE

FOOD PROCESSING PLANT USE

BACTERICIDAL

MILDEWCIDAL

FUNGICIDAL

GERMICIDAL ULTRA BLEACH

This product can be used on hard non-porous surfaces in commercial, institutional, hospital and household premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms) eating establishments, pet kennels, veterinary premises, farms, dairies, and food processing plants.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive, Causes irreversible eye and skin damage. May be fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear safety glasses and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

NOTIFICATION

55852-5

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/04/2020

ENVIRONMENTAL HAZARDS:

This product is toxic to fish and aquatic organisms. (For commercial /industrial uses, product 5 gallons or larger) Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

(For residential use) To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over treated area will help avoid run off to water bodies or drainage systems.

Chlorine must be allowed to dissipate from treated pool water before discharge. Do not make any chlorine application within 24 hours of discharge.

PHYSICAL AND CHEMICAL HAZARDS:

STRONG OXIDIZING AGENT. Flush drains before and after use. Do not use or mix with other household chemicals, such as toilet bowl cleaners, rust removers, and ammonia containing products. To do so will release hazardous gases. Prolonged contact with metal may cause pitting or discoloration. Do not use this product on chipped enamel.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

NOTE: [This product] [Sodium hypochlorite solutions] degrades with age. Use a chlorine test kit and increase dosage, as necessary, to obtain the required level of available chlorine.

TABLE OF PROPORTIONS AVAILABLE CHLORINE

600 PPM – 12 oz.	In 10 gal. water, 3 oz. in 2½ gal. water
200 PPM – 4 oz.	In 10 gal. water, 1 oz. in 2½ gal. water

One Tbsp. (1/2 oz.) of this product in 1 gallon of water is equivalent to approximately 200 parts per million (PPM) available chlorine. Use a chlorine test kit to determine exact available chlorine concentration and adjust as necessary to obtain specified PPM.

Disinfects, sanitizes, and deodorizes by killing most germs and their odors.

DILUTION TABLE

100 PPM.....	1/4 ounce to 1 gallon water
200 PPM.....	1/2 ounce to 1 gallon water
400 PPM.....	1 ounce to 1 gallon water
1000 PPM.....	2.5 ounces to 1 gallon water

	<u>Amount Bleach</u>	<u>Amount Water</u>	<u>Instructions</u>
FOR SANITIZING			
Work Surfaces	1 Tbsp.	1 Gallon	Pre-wash with detergent, rinse, cover surface with bleach solution for at least two minutes, drain, let air dry.
Dishes, Glassware, Utensils	1 Tbsp.	1 Gallon	After washing, soak for at least two minutes in bleach solution. Drain and let air-dry.
Bathtubs, Showers	1 Tbsp.	1 Gallon	Wash, rinse, apply bleach solution for at least two minutes, drain, let air dry.
Refrigerators, Freezers	1 Tbsp.	1 Gallon	Wash, rinse, apply bleach solution for at least two minutes, drain, let air dry.
Eating Establishments	1 oz.	2½ Gallon	Sanitize in a solution of 1 ounce to each 2 ½ gallons of water (200 PPM).
	3.25 oz.	2½ Gallon	Sanitize in a solution 3 ounces to each 2 ½ gallons water (600 PPM).
FOR DISINFECTING			
Floors & Walls	¾ cup	1 Gallon	Pre-wash surfaces and rinse. Spray, rinse or wipe surface with bleach solution, let stand for ten minutes. Let air dry.
Mops, Brushes, Brooms & Rugs	¾ cup	1 Gallon	Wash with detergent, apply bleach solution, soak for at least ten minutes. Rinse well.

FOR DEODORIZING

Garbage Cans	¾ cup	1 Gallon	After washing and rinsing, brush inside with bleach solution. Empty and let drain.
Drains	1 Cup	-----	Pour into drain. Flush with hot water.

FOR BLEACHING & WHITENING

Wooden Surfaces	½ cup	1 Gallon	Apply for five minutes, rinse.
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FOR MOLD, MILDEW & STAIN REMOVAL

All Surfaces	½ cup	1 Gallon	Add bleach to detergent solution, apply, rinse.
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FOR AGRICULTURAL USES

Food Egg Sanitization	1 Tbsp.	1 Gallon	Wash, rinse, spray with 130 ° F max bleach solution until completely wet, let air dry before casing or breaking. Once solution is used it must not be reused for this purpose.
Fruits & Vegetables Washing	1 Tbsp.	1 Gallon	Wash, rinse, soak in circulating bleach solution (25ppm) for two Minutes. Spray vegetables with bleach solution before packing: use potable water to rinse fruit before packaging. Rinse is to occur only immediately prior to packaging.

LAUNDRY: Use to bleach white and colorfast Acrylics, Cotton, Nylon, Polyester, Rayon (test to be sure). Do not use on Acetate, Leather, Silk, Spandex or Wool.

BLEACH TEST: Before using, mix one tablespoon of bleach with ½ cup of water in a glass, rubber, porcelain, or plastic container and test a small piece of fabric in a place that doesn't show.

LAUNDRY: Before adding clothes, mix ¾ cup of bleach with water in top-loading 16 gallon machines or mix 1/3 cup bleach with water in front-loading 8 gallon machines. Add clothes. If sanitation is desired, soak clothes for 5 minutes. Wash and rinse with usual cycles. If clothes are in machine the addition of bleach can cause damage.

REMOVE STAINS: Mix ¼ cup of bleach with a gallon of water. Soak stained area for 5 minutes to remove grass, ink, coffee, tea, scorch, fruit, etc. Rinse thoroughly.

LAUNDERING: To bleach and sanitize white and colorfast cotton, linen, nylon, Dacron, Orion, polyester, Dynel and rayon in washing machine: ¾ cup of this product per load for conventional washing machine; ½ cup for front load automatic. Add to pre-soak, wash water or first rinse. If clothes are in machine, dilute product in 1 quart water before adding.

To Whiten Nylon and Other Synthetics that have turned yellow or gray. 1 tablespoon of this product per gallon water. Soak clean fabric in solution for 15 to 20 minutes. Rinse well. Repeat if necessary.

To Remove Stains. Berry, wine, coffee, tea, ink, grass, dye. medicine stains, scorch and mildew. Make solutions of 2 tablespoons of this product to each quart water. Immerse fabric for 5 to 10 minutes. Rinse well in clear water. Repeat if necessary.

Today's Permanent Press Fabrics are Bleachable and need this product to get out stains and help prevent dirt build up. Wash with regular laundry as directed: Top-load automatics – ¾ cup per load. Wringer-type washers – ¾ cup per load. Front-load automatic ½ cup per load. Use this product with any good laundry soap or detergent. If your washer has an automatic bleach dispenser, follow washer directions. If not, add this product to wash water before laundry is put in. If laundry is put in before wash water then dilute this product in quart of water and add after machine has started agitating and fabrics are thoroughly wet.

DEODORIZING GARBAGE CANS: Wash and rinse. Use ¾ cup bleach for each gallon of water in can. Empty and let drain.

COOLING TOWER/EVAPORATIVE CONDENSER WATER:

SLUG FEED METHOD • Initial Dose: When system is noticeably fouled, apply 107 to 213 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 PPM available chlorine. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 21 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 PPM. Badly fouled systems must be cleaned before treatment is begun.

INTERMITTENT FEED METHOD - Initial Dose: When system is noticeably fouled, apply 107 to 213 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 PPM available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by lowdown.

Subsequent Dose: When microbial control is evident, add 21 oz. of this product per 10,000 gallons of water in the system to obtain a 1-PPM residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by lowdown. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD - Initial Dose: When system is noticeably fouled, apply 107 to 213 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 PPM available chlorine.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 2 oz. of this product per 1,000 gallons of water lost by lowdown to maintain a 1 PPM residual. Badly fouled systems must be cleaned before treatment is begun.

FARM PREMISES:

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors walls and surfaces of barns, pens, stalls, chutes and other facilities occupied or transverse by animals or poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. To disinfect, saturate all surfaces with a solution of at least-1000 PPM available chlorine for a period of 10 minutes. A 1000-PPM solution can be made by thoroughly mixing 21 oz. of this product with 10 gallons of water. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals or poultry, as well as the cleaned forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or poultry or employ equipment until chlorine has been dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains, and waters must be rinsed with potable water before reuse.

PULP AND PAPER MILL PROCESS WATER SYSTEMS:

SLUG FEED METHOD - Initial Dose: When system is noticeably fouled, apply 107 to 213 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 PPM available chlorine. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 21 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 PPM. Badly fouled systems must be cleaned before treatment is begun.

INTERMITTENT FEED METHOD - Initial Dose: When system is noticeably fouled, apply 107 to 213 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 PPM available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by lowdown.

Subsequent Dose: When microbial control is evident, add 21 oz. of this product per 10,000 gallons of water in the system to obtain a 1-PPM residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by lowdown. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD - Initial Dose: When system is noticeably fouled, apply 107 to 213 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 PPM available chlorine.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 2 oz. of this product per 1,000 gallons of water lost by lowdown to maintain a 1 PPM residual. Badly fouled systems must be cleaned before treatment is begun.

AQUACULTURAL USES:

FISH PONDS - Remove fish from ponds prior to treatment. Thoroughly mix 213 oz. of this product to 10,000 gallons of water to obtain 10 PPM available chlorine. Add more product to the water if the available chlorine level is below 1 PPM after 5 minutes. Return fish to pond after the available chlorine level reaches zero.

FISH POND EQUIPMENT - Thoroughly clean all equipment prior to treatment. Thoroughly mix 4 oz. of this product to 10 gallons of water to obtain 200 PPM available chlorine. Porous equipment should soak for one hour.

MAINE LOBSTER PONDS - Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 12,800 oz. of this product to 10,000 gallons of water to obtain at least 600 PPM available chlorine. Apply so that all barrows, gates, rocks and dams are treated with product. Permit high tide to fill the pond and then close the gates. Allow water to stand for 2 to 3 days until the available chlorine level reaches zero. Open and allow 2 tidal cycles to flush the pond before returning lobsters to the pond.

CONDITIONING LIVE OYSTERS - Thoroughly mix 11 oz. of this product to 10,000 gallons of water at 50 to 70 degrees F to obtain 0.5 PPM available chlorine. Expose Oysters to this solution for at least 15 minutes, monitoring the available chlorine level so that it does not fall below 0.05 PPM. Repeat entire process if the available chlorine level drops below 0.05 PPM or the temperature falls below 50 degrees F. (Not for use In California.)

CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS - Prepare a solution containing 200 PPM of available chlorine by mixing 4 oz. of product with 10 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable fish back into refilled ponds until chlorine residual has dropped to 0 PPM, as determined by a test kit.

ASPHALT OR WOOD ROOFS AND SIDINGS:

To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water, and apply a 5000 PPM available chlorine solution. Mix 11 oz. of this product per gallon of water and brush or spray roof or siding. After 30 minutes, rinse by hosing with clean water. [Not for use in California.]

BOAT BOTTOMS:

To control slime on boat bottoms, sling a plastic tarp under boat, retaining enough water to cover the fouled bottom area, but not allowing water to enter enclosed area. This envelope should contain approximately 500 gallons of water for a 14-foot boat. Add 37 oz. of this product to this water to obtain a 35-PPM available chlorine concentration. Leave immersed for 8 to 12 hours. Repeat if necessary. Do not discharge the solution until the chlorine level has dropped to 0 PPM, as determined by a swimming pool test kit. [Not for Use in California]

[DISINFECTION]

DISINFECTING KITCHEN, DISHES, SINKS: Use ¼ cup bleach mixed with a quart of water to soak cleaned dishes, teapot, cups, sinks, etc. for 10 minutes. Rinse with a solution of approximately 1 Tbsp. of bleach per gallon of water to prepare a 200-PPM solution. Do not use on silverware. Bleach solution can be used on porcelain, enamel, etc. surfaces after cleaning. Let air dry.

DISINFECTING WALLS, FLOORS. AND OTHER HARD INANIMATE SURFACES NOT IN DIRECT CONTACT WITH FOOD: Prewash surfaces and rinse. Mix ¾ cup bleach per gallon of water. Spray, rinse, or wipe surface with bleach solution and let stand for 10 minutes. Drain and air-dry.

FOR DISINFECTING floors, walls, ceilings and other similar hard, non-porous surfaces, use 4 ounces of bleach to 10 gallons of water. Dosage must be maintained at 200 PPM.

DISINFECTING BATHROOM: Prewash toilet and flush. Pour ½ cup bleach into toilet bowl. Scrub with a brush, making sure to get under rim, let stand 10 minutes, flush. Do not use with bowl cleaners or any other household chemicals.

DISINFECTING AND DEODORIZING BATHROOMS: To disinfect, deodorize, and eliminate mold and mildew from washable surfaces such as tubs, showers, countertops, sinks, ceramic tile and vinyl flooring, spread a solution of 1 ½ cups of this product per 2 gallons of water on clean surface. Let stand 10 minutes, then drain.

SICKROOM EQUIPMENT: Wash all surfaces thoroughly. Rinse, and then spread solution-of 1-½ cups of this product per 2 gallons of water over all surfaces. Let stand 10 minutes, then drain.

GARBAGE CANS: Wash thoroughly with warm soapy solution. Rinse then spread a solution of 1-½ cups of this product per 2 gallons of water over all surfaces. Let stand 10 minutes, then drain.

SWIMMING POOL WATER DISINFECTION:

For a new pool or spring start-up, superchlorinate with 107 to 213 oz. of product for each, 10,000 gallons of water to yield 5 to 10 PPM available chlorine by weight. Check the level of available chlorine with a test kit. Adjust and maintain pool water pH to between 7.2 to 7.6. Adjust and maintain the alkalinity of the pool to between 50 to 100 ppm. NOTE: This product degrades with age. Use a chlorine test kit and increase dosage as necessary, to obtain the required level of available chlorine.

To maintain the pool, add manually or by a feeder device 21 oz. of this product for each 10,000 gallons of water to yield an available chlorine residual between 0.6 to 1.0 PPM by weight. Stabilized pools should maintain a residual of 1.0 to 1.5 PPM available chlorine. Test the pH, available chlorine residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers. NOTE: This product degrades with age. Use a chlorine test kit and increase dosage as necessary, to obtain the required level of available chlorine.

Every 7 days, or as necessary, superchlorinate the pool with 107 to 213 oz. of product for each 10,000 gallons of water to yield 5 to 10 PPM available chlorine by weight. Check the level of available chlorine with a test kit. Do not enter pool until the chlorine residual drops below 4.0 ppm.

NOTE: This product degrades with age. Use a chlorine test kit and increase dosage as necessary, to obtain the required level of available chlorine.

At the end of the swimming pool season or when water is to be drained from the pool, chlorine must be allowed to dissipate from treated pool water before discharge. Do not chlorinate the pool within 24 hours prior to discharge.

WINTERIZING POOLS - While water is still clear & clean, apply 6.5 oz. of product per 1000 gallons, while filter is running, to obtain a 3 PPM available chlorine residual, as determined by a suitable test kit. Cover pool, prepare heater, filter and heater components for winter by following manufacturers' instructions.

SPAS, HOT TUBS, IMMERSION TANKS, ETC.:

SPAS/HOT-TUBS - Apply 11 oz. of product per 1000 gallons of water to obtain a free available chlorine concentration of 5 PPM, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product. Re-entry to treated spas/hot tubs is prohibited above 5ppm.

To maintain the water, apply 11 oz. of product per 1000 gallons of water over the surface to maintain a chlorine concentration of 5 PPM.

After each use, shock treat with 17 oz. of this product per 500 gallons of water to control odor and algae.

During extended periods of disuse, add 6.5 oz. of product daily per 1000 gallons of water to maintain a 3-PPM chlorine concentration.

HUBBARD AND IMMERSION TANKS. Add 11 oz. of this product per 200 gallons of water before patient use to obtain a chlorine residual of 25 PPM, as determined by a suitable test kit. Adjust and maintain the water pH to between 7.2 and 7.6. After each use drain the tank. Add 11 oz. to a bucket of water and circulate this solution through the agitator of the tank for 15 minutes and then rinse out the solution. Clean tank thoroughly and dry with clean cloths.

HYDROTHERAPY TANKS - Add 2 oz. of this product per 1000 gallons of water to obtain a chlorine residual of 1 PPM, as determined by a suitable chlorine test kit. Pool should not be entered until the chlorine residual is below 3 PPM. Adjust and maintain the water pH to between 7.2 and 7.6. Operate pool filter continuously. Drain pool weekly, and clean before refilling.

DISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES:

RINSE METHOD - Prepare a disinfecting solution by thoroughly mixing 13 oz. of this product with 10 gallons of water to provide approximately 600 PPM available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the disinfecting solution, maintaining contact with the solution for at least 10 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a disinfecting solution by thoroughly mixing in an immersion tank, 13 oz. of this product with 10 gallons of water to provide approximately 600 PPM available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the disinfecting solution for at least 10 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

SEWAGE & WASTEWATER EFFLUENT TREATMENT:

The disinfecting of sewage effluent must be evaluated by determining the total number of coliform bacteria and/or fecal coliform bacteria, as determined by the Most Probable Number (MPN) procedure, of the chlorinated effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction.

On the average, satisfactory disinfecting of secondary wastewater effluent can be obtained when the chlorine residual is 0.5 PPM after 15 minutes contact. Although the chlorine residual is the critical factor in disinfecting, the importance of correlating chlorine residual with bacterial kill must be emphasized. The MPN of the effluent, which is directly related to the water quality standards requirements, should be the final and primary standard and the chlorine residual should be considered an operating standard valid only to the extent verified by the coliform quality of the effluent.

The following are critical factors affecting wastewater disinfecting.

1. Mixing: It is imperative that the product and the wastewater are instantaneously and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the wastewater.
2. Contacting upon flash mixing, the flow through the system must be maintained.
3. Dosage/Residual Control: Successful disinfection is extremely dependent on response to fluctuating chlorine demand to maintain a predetermined, desirable chlorine level. Secondary effluent should contain 0.2 to 1.0-PPM chlorine residual after a 15 to 30 minute contact time. A reasonable average of residual chlorine is 0.5 PPM after 15 minutes contact time.

SEWAGE AND WASTEWATER TREATMENT:

EFFLUENT SLIME CONTROL - Apply a 100 to 1000-PPM available chlorine solution at a location, which will allow complete mixing. Prepare this solution by mixing 21 to 213 oz. of this product with 100 gallons of water. Once control is evident, apply a 15-PPM available chlorine solution. Prepare this solution by mixing 3 oz. of this product with 100 gallons of water.

FILTER BEDS - SLIME CONTROL: Remove filter from service, drain to a depth of 1 ft. above filter sand, and add 170 oz. of product per 20 sq./ft evenly over the surface. Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for 4 to 6 hours before completely draining and backwashing filter.

DISINFECTION OF DRINKING WATER (EMERGENCY/PUBLIC/INDIVIDUAL/SYSTEM):

PUBLIC SYSTEMS - Mix a ratio of 2 oz. of this product to 100 gallons of water. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 PPM and no more than 0.6 PPM is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

INDIVIDUAL SYSTEMS: DUG WELLS - Upon completion of the casing (lining), wash the interior of the casing (lining) with a 100 PPM available chlorine solution using a stiff brush. This solution can be made by thoroughly mixing 2 oz. of this product into 10 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipe sleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Consult your local Health Department for further details.

INDIVIDUAL WATER SYSTEMS: DRILLED, DRIVEN & BORED WELLS - Run pump until / water is as free from turbidity as possible. Pour a 100-PPM available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 2 oz. of this product into 10 gallons of water. Add 5 to 10 gallons of clean, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of the pump cylinder with the sanitizer. Drop pipelines into the well, start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours, flush well until all traces of chlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer to the well. Consult your local Health Department for further details.

INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS - Artesian Wells generally do not require disinfection. If analyses indicate persistent contamination, the well should be disinfected. Consult your local Health Department for further details.

EMERGENCY DISINFECTION - When boiling of water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified contaminated water to a clean container and add 3 drops of this product to 20 gallons of water. Allow the treated water to stand for 30 minutes. Property treated water should have a slight chlorine odor, if not, repeat dosage and allow the water to stand an additional 15 minutes. The treated water can then be made palatable by pouring it between clean containers for several times. This process has not been demonstrated to inactivate Cryptosporidium cysts.

PUBLIC WATER SYSTEMS:

RESERVOIRS: ALGAE CONTROL - Hypo chlorinate streams feeding the reservoir. Suitable feeding points should be selected on each stream at least 50 yards upstream from the points of entry into the reservoir.

MAINS - Thoroughly flush section to be sanitized by discharging from hydrants. Permit water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 PPM is obtained at the low-pressure end of the new main section after a 24-hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

NEW TANKS, BASINS, ETC. - Remove all physical soil from surfaces. Place 43 oz. of this product for each 5 cubic feet of working capacity (500-PPM available chlorine). Fill to working capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to surface.

NEW FILTER SAND - Apply 170 oz. of this product for each 150 to 200 cubic feet of sand. The action of the product dissolving as the water passes through the bed will aid in sanitizing the new sand.

NEW WELLS - Flush the casing with a 50-PPM available chlorine solution of water containing 11 oz. of this product for each 100 gallons of water. The solution should be pumped or fed by gravity into the well after thorough mixing with agitation. The well should stand for several hours or overnight under chlorination. It may then be pumped until a representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.

EXISTING EQUIPMENT - Remove equipment from service, thoroughly clean surfaces of all physical soil. Sanitize by placing 45 oz. of this product for each 5 cubic feet capacity (approximately 500-PPM available chlorine). Fill to working capacity and let stand at least 4 hours. Drain and place in service. If the previous treatment is not practical, surfaces may be sprayed with a solution containing 11 oz. of this product for each 5 gallons of water (approximately 1000-PPM available chlorine). After drying, flush with water and return to service.

EMERGENCY DISINFECTION AFTER FLOODS:

WELLS - Thoroughly flush contaminated casing with a 500-PPM available chlorine solution. Prepare this solution by mixing 11 oz. of this product with 10 gallons of water. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 PPM available chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 PPM available chlorine residual. Agitate the well water for several hours and take a representative water sample. Retreat well if water samples are biologically unacceptable.

RESERVOIRS - In case of contamination by overflowing streams, establish hypo chlorinating stations upstream of the reservoir. Chlorinate the inlet water until the entire reservoir obtains 0.2-PPM available chlorine residual, as determined by a suitable chlorine test kit. In case of contamination from surface drainage, apply sufficient product directly to the reservoir to obtain a 0.2-PPM available chlorine residual in all parts of the reservoir.

BASINS, TANKS, FLUMES, ETC. - Thoroughly clean all equipment, then apply 43 oz. of product per 5 cu. ft. of water to obtain 500 PPM available chlorine, as determined by a suitable test kit. After 24 hours, drain, flush, and return to service. If the previous method is not suitable, spray or flush the equipment with a solution containing 11 oz. of this product for each 5 gallons of water (1000-PPM available chlorine). Allow to stand for 2 to 4 hours, flush and return to service.

FILTERS - When the sand filter needs replacement apply 170 oz. of this product for each 150 to 200 cubic feet of sand. When the filter is severely contaminated, additional product should be distributed over the surface at the rate of 100 oz. per 20 sq. ft. Water should stand at a depth of 1 foot above the surface of the filter bed for 4 to 24 hours. When filter beds can be backwashed of mud and silt, apply 170 oz. of this product per each 50-sq. ft., allowing the water to stand at a depth of 1 foot above the filter sand. After 30 minutes, drain water to the level of the filter. After 4 to 6 hours, drain, and proceed with normal backwashing.

DISTRIBUTION SYSTEM - Flush repaired or replaced section with water. Establish a hypo chlorinating station and apply sufficient product until a consistent available chlorine residual of at least 10-PPM remains after 24-hour retention time. Use a chlorine test kit.

EMERGENCY DISINFECTION AFTER FIRES:

CROSS CONNECTIONS OF EMERGENCY CONNECTIONS - Hypo chlorination or gravity feed equipment should be set up near the intake of the untreated water supply. Apply sufficient product to give a chlorine residual of at least 0.1 to 0.2 PPM at the point where the untreated supply enters the regular distribution system. Use a chlorine test kit.

EMERGENCY DISINFECTION AFTER DROUGHTS:

SUPPLEMENTARY WATER SUPPLIES - Gravity or mechanical hypochlorite feeders should be set up on a supplementary line to dose the water to a minimum chlorine residual of 0.2 PPM after a 20 minute contact time. Use a chlorine test kit.

WATER SHIPPED IN BY TANKS. TANK CARS. TRUCKS, ETC. - Thoroughly clean all containers and equipment. Spray a 500-PPM available chlorine solution and rinse with potable water after 5 minutes. This solution is made by mixing 11 oz. of this product for each 10 gallons of water. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.2 PPM chlorine residual. Use a chlorine test kit.

EMERGENCY DISINFECTION AFTER MAIN BREAKS:

MAINS - Before assembly of the repaired section, flush out mud and soil. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual of test of 50 PPM is obtained at the low-pressure end of the new main section after a 24-hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV (AIDS VIRUS) ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS:

Kills HIV-1 (AIDS virus) on pre-cleaned environmental surfaces/objects previously soiled with blood/body fluids in healthcare settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS).

Personal Protection: Disposable latex or vinyl gloves, gowns, masks, and/or eye coverings must be worn during all cleaning and decontamination procedures of blood and other body fluids.

Cleaning Procedures: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before applying this product.

Disinfectant Use and Contact Time: Effective against HIV-1 (AIDS virus) on hard non-porous surfaces in the presence of a moderate amount of organic soil (e.g. 5% blood serum). Prepare disinfectant by mixing 22 oz. of this product per gallon of water to provide 10,000 PPM of available chlorine. Leave surfaces wet for 5 minutes. Drain and let air-dry.

Disposal of Infectious Materials: Blood and other body fluids should be autoclaved and disposed of according to Federal, State, and local regulations for infectious waste disposal.

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST MYCOBACTERIUM TUBERCULOSIS (TB) OF SURFACES/OBJECTS SOILED WITH BODY FLUIDS:

Kills mycobacterium tuberculosis (TB) on hard non-porous surfaces soiled with body fluids in healthcare settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with body fluids, and in which the surfaces/objects likely to be soiled with body fluids can be associated with the potential for transmission of mycobacterium tuberculosis.

Personal Protection: Disposable latex or vinyl gloves, gowns, masks, and/or eye coverings must be worn during all cleaning and decontamination procedures of blood and other body fluids.

Cleaning Procedures: Remove gross filth or heavy soil from surfaces or objects prior to application of product.

Disinfectant Rate and Contact Time: Effective against mycobacterium tuberculosis on hard non-porous surfaces in the presence of a moderate amount of organic soils (e.g. sputum). Prepare disinfectant by mixing 22 oz. of this product per gallon of water to provide 10,000 PPM of available chlorine. Leave surfaces wet for 5 minutes. Drain and let air-dry.

Disposal of Infectious Materials: Blood and other body fluids should be autoclaved and disposed of according to Federal, State, and local regulations for infectious waste disposal.

[SANITIZATION]

DEODORIZING AND SANITIZING: For baby clothes, diapers, dish cloths, etc., first wash, then soak in a solution of 1 ounce of bleach to 2 ½ gallons of water for 5 minutes. Rinse well. For wooden utensils, floors, breadboards, sinks, etc., wash in a normal manner, then soak or wet with a solution of 1.75 ounces of bleach in 1 quart of water. Let stand 5 minutes. Air dry.

TOILET BOWLS: To sanitize and deodorize pre-cleaned toilet bowls, use ½ cup of this product. Flush, pour in bleach - swab with brush, making sure to get under the rim, and let stand for 10 minutes. Flush. DO NOT use with bowl cleaners or any other household chemicals.

EGG SHELL SANITIZING Thoroughly clean eggs. Mix approximately 1 Tbsp. (1/2 oz) of bleach per gallon of warm water to produce a 200-PPM available chlorine solution. The sanitizer temperature should not exceed 130°F. Spray the warm sanitizer so that the eggs are thoroughly wetted. Allow the eggs to thoroughly dry before casing or breaking. Do not apply apparel. The solution should not be re-used to sanitize eggs.

One Tbsp. (1/2 ounce) of this product in 1 gallon of water is equivalent to approximately 200 parts per million (PPM) available chlorine.

Use a chlorine test kit to determine exact available chlorine concentration.

SANITIZING FOOD CONTACT SURFACES: Before using this product, remove or carefully protect food. Remove gross food particles from surface. Prewash surface with a good detergent and rinse thoroughly with potable water. Mix approximately 1 tablespoon of bleach per gallon of water to prepare a 200-PPM available chlorine solution. Cover surface with bleach solution for at least 2 minutes. Air dry.

DIRECTIONS FOR USE IN EATING ESTABLISHMENTS: (1) Scrape and prewash utensils and glasses whenever possible. (2) Wash with a good detergent or compatible cleaner. (3) Rinse with clean water. (4) Sanitize in a solution of 1 ounce to each 2 ½ gallons of water (200 PPM). Immerse all utensils for at least two minutes or for contact time specified by governing sanitary code. (5) Place sanitized utensils on a rack or drainboard to air dry.

SANITIZING NONPOROUS FOOD CONTACT SURFACES: Prepare a sanitizing solution by thoroughly mixing 2 Tbsp. (1 oz.) of this product with 2 ½ gallons of water to provide approximately 200 PPM available chlorine by weight. Clean all surfaces in the normal manner. Prior to use. Rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

TO SANITIZE MILKING EQUIPMENT: Prepare sanitizing solution as above immediately prior to use. All surfaces to be sanitized should be properly cleaned before application of chlorine solution. Milking utensils should be submerged in the solution for at least 2 minutes and allowed to drain. Do not rinse equipment with water after treatment. If solution contains less than 50-PPM available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200-PPM residual. Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

DIRECTIONS FOR SANITIZING FOOD PROCESSING OR DAIRY EQUIPMENT: Clean equipment in the normal manner. Just before using, rinse all surfaces thoroughly with a sodium hypochlorite solution containing 200 PPM available chlorine. One ounce of this solution per 2 ½ gallons of water will provide approximately 200 PPM available chlorine. Maintain contact with disinfectant for a minimum of two minutes. Do not rinse with water after treatment. Do not soak overnight.

For food contact surfaces, available chlorine must be maintained between 100 PPM to 200 PPM.

SANITIZING POROUS FOOD CONTACT SURFACES: Prepare a solution of approximately 600 PPM by thoroughly mixing 6 Tbsp. (3 oz.) of this product with 2 ½ gallons of water. Clean surfaces in the normal manner. Rinse all surfaces thoroughly with the 600 PPM solution, maintaining contact with the sanitizer for at least 2 minutes. Prepare a 200 PPM sanitizing solution by thoroughly mixing 2 Tbsp. (1 oz.) of this product with 2 ½ gallon of water. Prior to using equipment, rinse all surfaces with 200-PPM available chlorine solution. Do not rinse with water and do not soak equipment overnight.

RESTAURANTS, TAVERNS, SODA FOUNTAINS, DAIRIES, ETC.

DIRECTIONS FOR SANITIZING EATING AND DRINKING UTENSILS:

Prepare sanitizing solution immediately prior to use.

1. Scrape and pre-wash utensils and glass whenever possible.
2. Wash with good detergent or compatible cleaner.
3. Rinse with clean water.
4. Sanitize in solution of 1 oz to 2 ½ gallons of water (200 PPM).
5. Immerse utensils at least 2 minutes or for contact time specified by governing sanitary code.
6. Do not reuse sanitizing solution.

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES:

RINSE METHOD - A solution of 100-PPM available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100-PPM available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 PPM. Prepare a 100-PPM sanitizing solution by thoroughly mixing 2 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 4 oz. of this product with 10 gallons of water to provide approximately 200 PPM available chlorine by weight.

Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. If solution contains less than 50-PPM available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200-PPM residual. Do not rinse equipment with water after treatment and do not soak equipment overnight. Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

IMMERSION METHOD - A solution of 100 PPM available chlorine may be used in the sanitizing solution if chlorine test kit is available. Solutions containing an initial concentration of 100-PPM available chlorine must be tested and adjusted periodically to ensure that the available chlorine does not drop below 50 PPM. Prepare a 100-PPM sanitizing solution by thoroughly mixing 2 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 4 oz. of this product with 10 gallons of water to provide approximately 200 PPM available chlorine by weight.

Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. If solution contains less than 50-PPM available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200-PPM residual. Do not rinse equipment with water after treatment. Sanitizers used in automated systems may be used for general cleaning but may not be re- used for sanitizing purposes.

FLOW/PRESSURE METHOD - Disassemble equipment and thoroughly clean after use. Assemble equipment in operating position prior to use. Prepare a volume of a 200-PPM available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 4-oz. product with 10 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 2 minutes to ensure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50-PPM available chlorine.

CLEAN-IN-PLACE METHOD - Thoroughly clean equipment after use. Prepare a volume of a 200-PPM available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 4-oz. product with 10 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 10 minutes to ensure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50-PPM available chlorine.

SPRAY METHOD - Preclean all surfaces after use. Use a 200-PPM available chlorine solution to control bacteria, mold or fungi and a 600-PPM solution to control bacteriophage. Prepare a 200-PPM sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 4-oz. product with 10 gallons of water. Prepare a 600-PPM solution by thoroughly mixing the product in a ratio of 13-oz. product with 10 gallons of water. Use spray equipment which can resist hypochlorite solutions. Always empty and rinse spray equipment with potable water after use. Thoroughly spray all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces treated with 600-PPM solution with a 200-PPM solution.

SANITIZING OF POROUS FOOD CONTACT SURFACES:

RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 13 oz. of this product with 10 gallons of water to provide 600 PPM available chlorine by weight. Clean surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Prepare a 200-PPM sanitizing solution by thoroughly mixing 4 oz. of this product with 10 gallons of water and rinse all surfaces with this 200-PPM solution. Do not rinse with water and do not soak equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing in an immersion tank, 13 oz. of this product with 10 gallons of water to provide 600 PPM available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution, maintaining contact for at least 2 minutes and allow the sanitizer to drain. Following this, prepare a 200-PPM sanitizing solution by thoroughly mixing 4 oz. of this product with 10 gallons of water and rinse all surfaces with this 200-PPM solution. Do not rinse with water and do not soak equipment overnight.

SPRAY METHOD - Preclean all surfaces after use. Prepare a 600-PPM available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 13-oz. product with 10 gallons of water. Use spray equipment which can resist hypochlorite solutions. Always empty and rinse spray equipment with potable water after use. Thoroughly spray all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces with a 200-PPM available chlorine solution. Prepare a 200-PPM sanitizing solution by thoroughly mixing 4 oz. of this product with 10 gallons of water.

SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES:

RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 4 oz. of this product with 10 gallons of water to provide approximately 200 PPM available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing in an immersion tank, 4 oz. of this product with 10 gallons of water to provide approximately 200 PPM available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

SPRAY METHOD - Preclean all surfaces after use. Prepare a 200-PPM available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 4oz. product with 10 gallons of water. Use spray equipment which can resist hypochlorite solutions. Prior to using equipment, thoroughly spray all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES:

RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 13 oz. of this product with 10 gallons of water to provide approximately 600 PPM available chlorine by weight. Clean surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing in an immersion tank, 13 oz. of this product with 10 gallons of water to provide approximately 600 PPM available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

SPRAY METHOD - After cleaning, sanitize non-food contact surfaces with 600 PPM available chlorine by thoroughly mixing the product in a ratio of 13 oz. of this product with 10 gallons of water. Use spray equipment which can resist hypochlorite solutions. Always empty and rinse spray equipment with potable water after use. Prior to using equipment, thoroughly spray all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

LAUNDRY SANITIZERS:

Household Laundry Sanitizers

IN SOAKING SUDS - Thoroughly mix 4 oz. of this product to 10 gallons of wash water to provide 200 PPM available chlorine. Wait 5 minutes, and then add soap or detergent. Immerse laundry for at least 11 minutes prior to starting the wash/rinse cycle.

IN WASHING SUDS - Thoroughly mix 4 oz. of this product to 10 gallons of wash water containing clothes to provide 200 PPM available chlorine. Wait 5 minutes, then add soap or detergent and start the wash/rinse cycle.

Commercial Laundry Sanitizes

Wet fabrics or clothes should be spun dry prior to sanitation. Thoroughly mix 4 oz. of this product with 10 gallons of water to yield 200 PPM available chlorine. Promptly after mixing the sanitizer, add the solution into the Prewash prior to washing fabrics/clothes in the regular wash cycle with a good detergent. Test the level of available chlorine, if solution has been allowed to stand. Add more of this product if the available chlorine level has dropped below 200 PPM.

AGRICULTURAL USES:

POST-HARVEST PROTECTION - Potatoes can be sanitized after cleaning and prior to storage by spraying with a sanitizing solution at a level of 1 gallon of sanitizing solution per ton of potatoes. Thoroughly mix 2 oz. of this product to 2 gallons of water to obtain 500 PPM available chlorine.

LEAFCUTTING BEE CELLS AND BEE BOARDS - Disinfect leaf cutting bee cells and bee boards by immersion in a solution containing 1-PPM available chlorine for 3 minutes. Allow cells to drain for 2 minutes and dry for 4 to 5 hours or until no chlorine odor can be detected. This solution is made by thoroughly mixing 2 tsp. of this product to 100 gallons of water. The bee domicile is disinfected by spraying with a 0.1-PPM solution until all surfaces are thoroughly wet. Allow the domicile to dry until all chlorine odors have dissipated. (Not for use in California.)

FOOD EGG SANITIZATION - Thoroughly clean all eggs. Thoroughly mix 4 oz. of this product with 10 gallons of warm water to produce a 200-PPM available chlorine solution. The sanitizer temperature should not exceed 130 degrees F. Spray the warm sanitizer so that the eggs are thoroughly wetted. Allow the eggs to thoroughly dry before casing or breaking. Do not apply a potable water rinse. The solution should not be re-used to sanitize eggs.

FRUIT & VEGETABLE WASHING - Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 11 oz. of this product in 20 gallons of water to make a sanitizing solution of 25-PPM available chlorine. After draining the tank, submerge fruit or vegetables for 2 minutes in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

SANITIZATION OF DIALYSIS MACHINES:

Flush equipment thoroughly with water prior to using this product. Thoroughly mix 13 oz. of this product to 10 gallons of water to obtain at least 600 PPM available chlorine. Immediately use this product in the hemodialysate system allowing for a minimum contact time of 15 minutes at 20 degrees C. Drain system of the sanitizing solution and thoroughly rinse with water. Discard hemodialysate and DO NOT reuse the spent sanitizer. Rinsate must be monitored with a suitable test kit to ensure that no available chlorine remains in the system.

This product is recommended for decontaminating single and multi-patient hemodialysate systems. This product has been shown to be an effective disinfectant (virucide, fungicide, bactericide, pseudomonicide) when tested by AOAC and EPA test methods. This product may not totally eliminate all vegetative microorganisms in hemodialysate delivery systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. This product should be used in a disinfectant program that includes bacteriological monitoring of the hemodialysate delivery system. This product is NOT recommended for use in hemodialysate or reverse osmosis (RO) membranes.

Consult the guidelines for hemodialysate systems that are available from the Hepatitis Laboratories, CDC, Phoenix, AR 85021.

ARTIFICIAL SAND BEACHES:

To sanitize the sand, spray a 500-PPM available chlorine solution containing 11 oz. of this product per 10 gal. of water at frequent intervals. Small areas can be sprinkled with a watering can. [Not for Use in California.]

WAREWASHING:

FOR SANITIZING TABLEWARE IN LOW TEMPERATURE DISHWASHING MACHINE -Dispense this product into final rinse water at 100-PPM available chlorine. Do not allow concentration to fall below 50 PPM. Air dry. Dispenser should be set to deliver 6.5 cc of sanitizing solution per gallon of water to give 100 PPM of available chlorine. Only a qualified service representative should set or adjust dispenser on the machine.

(For Residential use)

STORAGE AND DISPOSAL

Do not contaminate food or feed by storage, disposal, or cleaning of equipment.

Pesticide Storage: Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water.

Pesticide Disposal: Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or place in trash.

(For Institutional/Commercial use)

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment.

Pesticide Storage: Store in a cool dry area away from direct sunlight and heat to avoid deterioration. In case of spill, flood area with large quantities of water.

Pesticide Disposal: Do not contaminate food or feed by storage, disposal, or cleaning of equipment. Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Net Weight/Net Contents:

Lot Number:

Packaged By:

Champion Packaging & Distribution, Inc.
1840 Internationale Parkway
Woodridge, IL 60517

EPA Reg. No. 55852-5

EPA Est. No.

NSF approved (Logo on the label)

NSF Reg. No. 135775

Category Code B1, B2, D2, Q4

Optional Label Claims:

- For Household Use
- Dilute TUNDRA Ultra Bleach as stated in directions below.
- Exercise care in handling.
- Check to make sure bottle is always tightly capped.
- Product should be carried and stored in an upright position to avoid spillage.
- Not harmful to septic systems.
- Find us on Facebook
- kleanmatters.com
- **[FOR SUPPLEMENTAL DISTRIBUTOR – EPA Company No. 73664]** Quality, performance and satisfaction are always double guaranteed at ALDI®. If for any reason you are not 100% satisfied with this product, we will gladly replace the product AND refund your money. When corresponding, please include code information from package.

Pictograms:

Klean Matters pictogram:



HE Washers pictogram:



Company Logo:



NSF Logo:



Arocep Logo

